

Table 1 Formulation Examples 1-15

| Constitution | Function | Components | Formulation Example 1 | Formulation Example 2 | Formulation Example 3 | Formulation Example 4 | Formulation Example 5 | Formulation Example 6 | Formulation Example 7 | Formulation Example 8 |
|--------------------------------|-------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Nucleus | Nucleus Granule | ETHISPHERES | 72.07 | 76.00 | 76.70 | 74.32 | 78.25 | 78.95 | 74.32 | 78.25 |
| Drug-Carrying Layer | Drug | Beraprost sodium | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | Coating Agent | HPMC 2910 | 3.79 | 3.68 | 3.62 | 3.79 | 3.68 | 3.62 | 3.79 | 3.68 |
| | Plasticizer | PEG 6000 | 0.75 | 0.74 | 0.73 | 0.75 | 0.74 | 0.73 | 0.75 | 0.74 |
| | Subtotal | | 4.66 | 4.54 | 4.47 | 4.66 | 4.54 | 4.47 | 4.66 | 4.54 |
| Sustained Release Skin Layer 1 | Coating Agent | Glycerol monostearate | 7.50 | 7.50 | 7.50 | | | | | |
| | | Glycerol monopalmitate | | | | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| | | Glycerol tristearate | | | | | | | | |
| | | Cetyl alcohol | | | | | | | | |
| | | Stearic acid | | | | | | | | |
| Brittleness Agent | | Talc | 3.75 | 3.75 | 3.75 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | Subtotal | | 11.25 | 11.25 | 11.25 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| Sustained Release Skin Layer 2 | Coating Agent | Eudragit NE30D [†] | 6.00 | 6.50 | | 6.00 | 6.50 | | 6.00 | 6.50 |
| | | Cellulose acetate | | | | | | 6.00 | | |
| | | Ethyl cellulose | | | 6.00 | | | | | |
| | Brittleness Agent | Talc | 6.00 | 1.30 | 1.20 | 6.00 | 1.30 | 1.20 | 6.00 | 1.30 |
| | Plasticizer | Triethyl citrate | | 0.39 | 0.36 | | 0.39 | 0.36 | | 0.39 |
| Dispersant | | Polysorbate 80 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | Subtotal | | 12.02 | 8.21 | 7.58 | 12.02 | 8.21 | 7.58 | 12.02 | 8.21 |
| Other | Lubricant | Talc | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Total | | | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 |

[†] "Eudragit NE30D" is a trademark, whose chemical name is poly(ethylacrylate, methylmethacrylate) and which has a molecular weight of 800,000.

Table 1 (continued)

| Constitution | Function | Components | Formulation Example 9 | Formulation Example 10 | Formulation Example 11 | Formulation Example 12 | Formulation Example 13 | Formulation Example 14 | Formulation Example 15 |
|--------------------------------------|-----------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Nucleus | Nucleus Granule | ETHISPHERES | 78.95 | 71.32 | 75.25 | 75.95 | 72.82 | 76.75 | 77.45 |
| Drug-Carrying Layer | Drug | Benaprost sodium | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | Coating Agent | HPMC 2910 | 3.62 | 3.79 | 3.68 | 3.62 | 3.79 | 3.68 | 3.62 |
| | Plasticizer | PEG 6000 | 0.73 | 0.75 | 0.74 | 0.73 | 0.75 | 0.74 | 0.73 |
| | Subtotal | | 4.47 | 4.66 | 4.54 | 4.47 | 4.66 | 4.54 | 4.47 |
| Sustained Release Skin Layer 1 | Coating Agent | Glyceryl monooleate | | | | | | | |
| | | Glyceryl monopalmitate | | | | | | | |
| | | Glyceryl tritristate | 6.00 | 8.00 | 8.00 | 8.00 | 7.00 | 7.00 | 7.00 |
| | | Cetyl alcohol | | | | | 3.50 | 3.50 | 3.50 |
| | | Stearic acid | 3.00 | 4.00 | 4.00 | 4.00 | 10.50 | 10.50 | 10.50 |
| | Talc | | 9.00 | 12.00 | 12.00 | 12.00 | 6.00 | | |
| Sustained Release Skin Layer 2 | Coating Agent | Endragit NE30D ¹ | | 6.00 | 6.50 | 6.00 | | 6.50 | 6.00 |
| | | Cellulose acetate | 6.00 | | | 6.00 | | | |
| | | Ethyl cellulose | 1.20 | 6.00 | 1.30 | 1.20 | 6.00 | 1.30 | 1.20 |
| | | Talc | 0.36 | | 0.39 | 0.36 | | 0.39 | 0.36 |
| | Plasticizer | Triethyl citrate | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | Dispersant | Polysorbate 80 | 7.58 | 12.02 | 8.21 | 7.58 | 12.02 | 8.21 | 7.58 |
| Other | Subtotal | | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Total | Lubricant | Talc | | | | | | | |
| | | | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 | 100.50 |

¹ "Endragit NE30D" is a trademark, whose chemical name is poly(ethylacrylate, methylmethacrylate) and which has a molecular weight of 800,000.

Unit: mg/capsule